



Atty. Dkt. No. 081445-0380

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Timothy I. Salsbury et al.
Title: METHOD FOR CONTROLLING
A DISCRETE SYSTEM
Appl. No.: 10/815,100
Filing Date: 03/31/2004
Examiner: To be determined
Art Unit: 2121

CERTIFICATE OF EXPRESS MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service's "Express Mail Post Office To Addressee" service under 37 C.F.R. § 1.10 on the date indicated below and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
EV 431584104 US (Express Mail Label Number)	06/30/04 (Date of Deposit)
Roberta A. Cooper (Printed Name)	
<i>Roberta A. Cooper</i> (Signature)	

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

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Sir:

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003. Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to Pre-OG Notice from Office of Patent Legal Administration dated July 25, 2003, *Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.*

Applicants submit herewith on Form PTO-1449 a listing of the documents cited by or submitted to the U.S. PTO in parent application Serial No. 10/075,177, filed 02/14/2002.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 06-1447. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1447.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

By 

Scott D. Anderson
Attorney for Applicant
Registration No. 46,521

Date 6/30/07

FOLEY & LARDNER LLP
Customer Number: 26371
Telephone: (414) 297-5740
Facsimile: (414) 297-4900



Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 081445-0180	SERIAL NO. 10/815,100
		INFORMATION DISCLOSURE CITATION		APPLICANT Timothy I. Salsbury et al.	
		(Use several sheets if necessary)		FILING DATE 03/31/2004	GROUP ART UNIT 2121

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
	A1	6,554,198	04/29/2003	Hull et al.	236	49.3	
	A2	6,522,954	02/18/2003	Kummerer et al.	700	278	
	A3	6,424,873	07/23/2002	Przybylski	700	42	
	A4	6,408,228	06/18/2002	Seem et al.	700	276	
	A5	6,122,605	09/19/2000	Drees et al.	702	194	
	A6	6,006,142	12/21/1999	Seem et al.	700	276	
	A7	5,607,190	03/04/1997	Exandier et al.	285	93	
	A8	5,558,274	09/24/1996	Ben-Aissa et al.	236	13	
	A9	5,276,630	01/04/1994	Baldwin et al.	364	505	
	A10	4,901,918	02/20/1990	Grald et al.	236	178	
	A11	2003/0153986	08/14/2003	Salsbury et al.	700	11	
	A12	2002/0116075	08/22/2002	Salsbury	700	1	

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

A13	Al-Numay, S., D. G. Taylor, "One Cycle Averaging for Digital PWM Control System Design", Proceedings of the American Control Conference June 2000, Page 1057.				
A14	Bernelli-Zazzera, F., P. Mantegazza, "Linearization Techniques for Pulse Width Control of Linear Systems", Control and Dynamic Systems: Advances in Theory and Applications, Volume 70, 1995; Page 67.				
A15	Clark, R. C., "HVACSIM+ Building Systems and Equipment Simulation Program Reference Manual", Published by the U.S. Department of Commerce, National Bureau of Standards, National Engineering Laboratory, Center for Building Technology, Building Equipment Division, Gaithersburg, MD 20899, 1985.				
A16	Energy Information Administration (EIA), "Commercial Building Energy Consumption and Expenditures 1995". DOE/EIA-0625(95), Washington, D.C., 1998.				

EXAMINER	DATE CONSIDERED

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.

Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 081445-0180	SERIAL NO. 10/075,177
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Timothy I. Salsbury et al.	
		FILING DATE 02/14/2002	GROUP ART UNIT 2858

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	A17	Guo, B., D. C. Lin, Y. L. Feng, K. G. D. Laknath, M. Syedulaq, M. Nakaoka, "New Conceptual Electromagnetic Induction Fluid Heating System Using Resonant PWM Inverter with Auto-Tuning PID Controller". Proceedings of the IEEE International Conference on Industrial Technology, 1996, Page 390.
	A18	Mallinson, N., "Plug & Play Single Chip Controllers for Variable Speed Induction Motor Drives in White Goods and HVAC Systems", Proceedings of the 13th Annual Applied Power Electronics Conference, 1998 Page 756.
	A19	Nagai, S., H. Nagura, M. Nakaoka, "High Frequency Inverter with Phase-Shifted PWM and Load Adaptive PFM Control Strategy for Industrial Induction-Heating", Proceedings of IEEE Industry Applications Conference, Canada, 1993, Page 2165.
	A20	Seem, J. E., "A New Pattern Recognition Adaptive Controller with Application to HYAC Systems", Automatica, Volume 34, Number 8, 1998, Page 969.
	A21	Seem, J. E., C. Park, and J. M. House, "A new sequencing control strategy for Air-Handling Units," International Journal of Heating, Ventilating, Air-Conditioning and Refrigerating Research, Volume 5, Number 1, January, 1999, pp. 35-58.
	A22	Skoog, R. A., G. L. Blankenship, "Generalized Pulse-Modulated Feedback Systems: Norms, Gains, Lipschitz Constants, and Stability", IEEE Transactions on Automatic Control. Volume AC-21, Number 5, 1976, Page 739.
	A23	Sira-Ramirez, H. 1989, "Sliding Regimes in Pulse-Width-Modulation Systems Design", Proceedings of the 28 th IEEE Conference on Decision and Control-Tampa, Florida, 1989, Page 2199-2204.
	A25	Van Varseveld, R., G. Bone, "Accurate Position Control of a Pneumatic Actuator Using On/Off Solenoid Valves", IEEE/ASME Transactions on Mechatronics, Volume 2, 1997, Page 195.
	A25	Zaheer-Uddin, M., G. R. Zheng, "A VAV System Model for Simulation of Energy Management Control Functions: Off Normal Operation and Duty Cycling", International Journal of Energy Conversion and Management, 1994, Page 917.